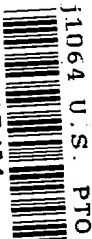


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0002/PTO  
Rev. 6/95U.S. Department of Commerce  
Patent and Trademark Office**NEW UTILITY PATENT  
APPLICATION TRANSMITTAL**

(to be used for new applications only)

Attorney Docket Number

1195.25

First Named Inventor

Tara Chand Singhal

Total Pages in this Submission

55

**APPLICATION ELEMENTS**

Notice: Checklist items mentioned under **Application Elements** section construct a new utility patent application. Please refer to MPEP Sections 506, 601, (37CFR 1.77, 1.53, 35 USC 111, 112, 113) for detailed explanation regarding completeness of an original patent application.

1. ☒ Fee Transmittal Form (prescribed filing fee(s))

2. Specification

☒ Title of the Invention☒ Cross References to Related Applications  
(if applicable)☐ Statement Regarding Federally-sponsored  
Research/Development (if applicable)☐ Reference to Microfiche Appendix  
(if applicable)☒ Background of the Invention☒ Brief Summary of the Invention☒ Brief Description of the Drawings  
(if drawings filed)☒ Detailed Description☒ Claim or Claims☒ Abstract of the Disclosure3. ☒ Drawing(s) (when necessary as prescribed by  
35 USC 113)4. ☒ Executed Declaration5. Genetic Sequence Submission  
(if applicable, all must be included)☐ Paper Copy☐ Computer Readable Copy☐ Statement Verifying Identical Paper and  
Computer Readable Copy**ACCOMPANYING APPLICATION PARTS**6. ☐ Assignment Papers7. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)8. ☐ Computer Program in Microfiche9. ☐ English Translation Document (if applicable)10. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS  
Citations11. ☐ Petition Checklist and Accompanying Petition12. ☐ Preliminary Amendment13. ☐ Proprietary Information14. ☐ Return Receipt Postcard15. ☒ Small Entity Statement16. ☐ Additional Enclosures (please identify below):**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**Firm  
or  
Individual name

Tara Chand Singhal

Signature

Tara Chand Singhal

Date

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|                    |                  |                         |  |                    |  |
|--------------------|------------------|-------------------------|--|--------------------|--|
| Application Number |                  | Class                   |  | Independent Claims |  |
| Date of Receipt    | Application Type | GAU                     |  | Total Claims       |  |
|                    | Filing Date      | Foreign Filing License? |  | Drawing Sheets     |  |
|                    | Small Entity     | Foreign Address?        |  | Special Handling?  |  |

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| 0002/PTO<br>Rev 10/95                       | U.S. Department of Commerce<br>Patent and Trademark Office | <b>Complete if Known</b> |                    |
| <h2 style="margin: 0;">FEE TRANSMITTAL</h2> |  | Application Number       |                    |
|   |  | Filing Date              |                    |
|   |  | First Named Inventor     | Tara Chand Singhal |
|   |  | Group Art Unit           |                    |
|   |  | Examiner Name            |                    |
| TOTAL AMOUNT OF PAYMENT (\$592.00)          |  | Attorney Docket Number   | 1195.25            |

| METHOD OF PAYMENT (check one)   | FEE CALCULATION (continued)  |  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
|---|--|--|-------------------------------|-----------------|----------|---------|--------------------|-------------------------------------|---------|---------|-------------------|---|---------|---------|------------------|---------------------------|---------|-----------|--------------------|--|---------|---------|------------------------|--|--|--------------|-----------|---|----------|-----------|--------|---|-----|---------|---------|--|----|---------------------------|---------|---|--|-------------------------------|-------------------------------|--|--------|---------|------------------------|------------------|--------|-----------------------------------|---------|--|--------------------------|---------|---------|---|--------|-----------|---|---|--|---------|--------|--|--|-----------|---------|--|--|-----------|---------|--------------------------------|--|---------|---------|------------------|--|---------|---------|-----------------|--|---------|---------|-------------------------------|--|--------|--------|---|--|---------|---------|---|--|--------|--------|--|--|---------|---------|---|--|---------|---------|--|--|---------------------------|--|--|--|---------------------------|--|--|--|
| <p>1 <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number <span style="border: 1px solid black; display: inline-block; width: 150px; height: 1.2em; vertical-align: middle;"></span></p> <p>Deposit Account Name <span style="border: 1px solid black; display: inline-block; width: 150px; height: 1.2em; vertical-align: middle;"></span></p> <p><input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17     <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b)</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:</p> <p style="margin-left: 20px;"> <input checked="" type="checkbox"/> Check     <input type="checkbox"/> Money Order     <input type="checkbox"/> Other     </p> | <h3 style="margin: 0;">3. ADDITIONAL FEES</h3> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity<br/>Fee Code (\$)</th> <th style="text-align: left;">Small Entity<br/>Fee Code (\$)</th> <th style="text-align: left;">Fee Description</th> <th style="text-align: left;">Fee Paid</th> </tr> </thead> <tbody> <tr><td>105 130</td><td>205 65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127 50</td><td>227 25</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>139 130</td><td>139 130</td><td>Non-English specification</td><td></td></tr> <tr><td>147 2,390</td><td>147 2,390</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112 870</td><td>112 870</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113 1,740</td><td>113 1,740</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115 110</td><td>215 55</td><td>Extension for response within first month</td><td></td></tr> <tr><td>116 380</td><td>216 190</td><td>Extension for response within second month</td><td></td></tr> <tr><td>117 900</td><td>217 450</td><td>Extension for response within third month</td><td></td></tr> <tr><td>118 1,400</td><td>218 700</td><td>Extension for response within fourth month</td><td></td></tr> <tr><td>119 290</td><td>219 145</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120 290</td><td>220 145</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121 250</td><td>221 125</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138 1,430</td><td>138 1,430</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140 110</td><td>240 55</td><td>Petition to revive unavoidably abandoned application</td><td></td></tr> <tr><td>141 1,250</td><td>241 625</td><td>Petition to revive unintentionally abandoned application</td><td></td></tr> <tr><td>142 1,250</td><td>242 625</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143 430</td><td>243 215</td><td>Design issue fee</td><td></td></tr> <tr><td>144 630</td><td>244 315</td><td>Plant issue fee</td><td></td></tr> <tr><td>122 130</td><td>122 130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123 50</td><td>123 50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126 220</td><td>126 220</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581 40</td><td>581 40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146 750</td><td>246 375</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149 750</td><td>249 375</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="3">Other fee (specify) _____</td><td></td></tr> <tr><td colspan="3">Other fee (specify) _____</td><td></td></tr> </tbody> </table> | Large Entity<br>Fee Code (\$)  | Small Entity<br>Fee Code (\$) | Fee Description | Fee Paid | 105 130 | 205 65             | Surcharge - late filing fee or oath |         | 127 50  | 227 25            | Surcharge - late provisional filing fee or cover sheet. |         | 139 130 | 139 130          | Non-English specification |         | 147 2,390 | 147 2,390          | For filing a request for reexamination |         | 112 870 | 112 870                | Requesting publication of SIR prior to Examiner action |  | 113 1,740    | 113 1,740 | Requesting publication of SIR after Examiner action |          | 115 110   | 215 55 | Extension for response within first month |     | 116 380 | 216 190 | Extension for response within second month |    | 117 900                   | 217 450 | Extension for response within third month |  | 118 1,400                     | 218 700                       | Extension for response within fourth month |        | 119 290 | 219 145                | Notice of Appeal |        | 120 290                           | 220 145 | Filing a brief in support of an appeal |                          | 121 250 | 221 125 | Request for oral hearing                        |        | 138 1,430 | 138 1,430   | Petition to institute a public use proceeding |  | 140 110 | 240 55 | Petition to revive unavoidably abandoned application |  | 141 1,250 | 241 625 | Petition to revive unintentionally abandoned application |  | 142 1,250 | 242 625 | Utility issue fee (or reissue) |  | 143 430 | 243 215 | Design issue fee |  | 144 630 | 244 315 | Plant issue fee |  | 122 130 | 122 130 | Petitions to the Commissioner |  | 123 50 | 123 50 | Petitions related to provisional applications |  | 126 220 | 126 220 | Submission of Information Disclosure Stmt |  | 581 40 | 581 40 | Recording each patent assignment per property (times number of properties) |  | 146 750 | 246 375 | Filing a submission after final rejection (37 CFR 1.129(a)) |  | 149 750 | 249 375 | For each additional invention to be examined (37 CFR 1.129(b)) |  | Other fee (specify) _____ |  |  |  | Other fee (specify) _____ |  |  |  |
| Large Entity<br>Fee Code (\$)   | Small Entity<br>Fee Code (\$)  | Fee Description  | Fee Paid                      |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 105 130   | 205 65   | Surcharge - late filing fee or oath  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 127 50  | 227 25   | Surcharge - late provisional filing fee or cover sheet.                    |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 139 130   | 139 130  | Non-English specification  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 147 2,390   | 147 2,390  | For filing a request for reexamination                                     |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 112 870   | 112 870  | Requesting publication of SIR prior to Examiner action                     |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 113 1,740   | 113 1,740  | Requesting publication of SIR after Examiner action                        |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 115 110   | 215 55   | Extension for response within first month                                  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 116 380   | 216 190  | Extension for response within second month                                 |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 117 900   | 217 450  | Extension for response within third month                                  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 118 1,400   | 218 700  | Extension for response within fourth month                                 |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 119 290   | 219 145  | Notice of Appeal   |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 120 290   | 220 145  | Filing a brief in support of an appeal                                     |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 121 250   | 221 125  | Request for oral hearing   |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 138 1,430   | 138 1,430  | Petition to institute a public use proceeding                              |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 140 110   | 240 55   | Petition to revive unavoidably abandoned application                       |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 141 1,250   | 241 625  | Petition to revive unintentionally abandoned application                   |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 142 1,250   | 242 625  | Utility issue fee (or reissue)   |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 143 430   | 243 215  | Design issue fee   |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 144 630   | 244 315  | Plant issue fee  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 122 130   | 122 130  | Petitions to the Commissioner  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 123 50  | 123 50   | Petitions related to provisional applications                              |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 126 220   | 126 220  | Submission of Information Disclosure Stmt                                  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 581 40  | 581 40   | Recording each patent assignment per property (times number of properties) |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 146 750   | 246 375  | Filing a submission after final rejection (37 CFR 1.129(a))                |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 149 750   | 249 375  | For each additional invention to be examined (37 CFR 1.129(b))             |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| Other fee (specify) _____   |  |  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| Other fee (specify) _____   |  |  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| <h3 style="margin: 0;">1. FILING FEE</h3> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity<br/>Fee Code (\$)</th> <th style="text-align: left;">Small Entity<br/>Fee Code (\$)</th> <th style="text-align: left;">Fee Description</th> <th style="text-align: left;">Fee Paid</th> </tr> </thead> <tbody> <tr><td>101 750</td><td>201 375</td><td>Utility filing fee</td><td>370</td></tr> <tr><td>106 310</td><td>206 155</td><td>Design filing fee</td><td></td></tr> <tr><td>107 510</td><td>207 255</td><td>Plant filing fee</td><td></td></tr> <tr><td>108 750</td><td>208 375</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114 150</td><td>214 75</td><td>Provisional filing fee</td><td></td></tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;"> <b>SUBTOTAL (1)</b> (\$370.00)     </p>                  | Large Entity<br>Fee Code (\$)  | Small Entity<br>Fee Code (\$)  | Fee Description               | Fee Paid        | 101 750  | 201 375 | Utility filing fee | 370                                 | 106 310 | 206 155 | Design filing fee |   | 107 510 | 207 255 | Plant filing fee |                           | 108 750 | 208 375   | Reissue filing fee |  | 114 150 | 214 75  | Provisional filing fee |  | <h3 style="margin: 0;">2. CLAIMS</h3> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Total Claims</th> <th style="text-align: left;">Extra</th> <th style="text-align: left;">Fee from below</th> <th style="text-align: left;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td>40 - 20 =</td> <td>20</td> <td>X 9 =</td> <td>180</td> </tr> <tr> <td>4 - 3 =</td> <td>1</td> <td>X 42 =</td> <td>42</td> </tr> <tr> <td>Multiple Dependent Claims</td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table><br><table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity<br/>Fee Code (\$)</th> <th style="text-align: left;">Small Entity<br/>Fee Code (\$)</th> <th style="text-align: left;">Fee Description</th> </tr> </thead> <tbody> <tr><td>103 22</td><td>203 11</td><td>Claims in excess of 20</td></tr> <tr><td>102 78</td><td>202 39</td><td>Independent claims in excess of 3</td></tr> <tr><td>104 250</td><td>204 125</td><td>Multiple dependent claim</td></tr> <tr><td>109 78</td><td>209 39</td><td>Reissue independent claims over original patent</td></tr> <tr><td>110 22</td><td>210 11</td><td>Reissue claims in excess of 20 and over original patent</td></tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;"> <b>SUBTOTAL (2)</b> (\$222)     </p> | Total Claims | Extra     | Fee from below                                      | Fee Paid | 40 - 20 = | 20     | X 9 =                                     | 180 | 4 - 3 = | 1       | X 42 =                                     | 42 | Multiple Dependent Claims |         | X   |  | Large Entity<br>Fee Code (\$) | Small Entity<br>Fee Code (\$) | Fee Description                            | 103 22 | 203 11  | Claims in excess of 20 | 102 78           | 202 39 | Independent claims in excess of 3 | 104 250 | 204 125                                | Multiple dependent claim | 109 78  | 209 39  | Reissue independent claims over original patent | 110 22 | 210 11    | Reissue claims in excess of 20 and over original patent |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| Large Entity<br>Fee Code (\$)   | Small Entity<br>Fee Code (\$)  | Fee Description  | Fee Paid                      |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 101 750   | 201 375  | Utility filing fee   | 370                           |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 106 310   | 206 155  | Design filing fee  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 107 510   | 207 255  | Plant filing fee   |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 108 750   | 208 375  | Reissue filing fee   |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 114 150   | 214 75   | Provisional filing fee   |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| Total Claims  | Extra  | Fee from below   | Fee Paid                      |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 40 - 20 =   | 20   | X 9 =  | 180                           |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 4 - 3 =   | 1  | X 42 =   | 42                            |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| Multiple Dependent Claims   |  | X  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| Large Entity<br>Fee Code (\$)   | Small Entity<br>Fee Code (\$)  | Fee Description  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 103 22  | 203 11   | Claims in excess of 20   |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 102 78  | 202 39   | Independent claims in excess of 3  |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 104 250   | 204 125  | Multiple dependent claim   |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 109 78  | 209 39   | Reissue independent claims over original patent                            |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
| 110 22  | 210 11   | Reissue claims in excess of 20 and over original patent                    |                               |                 |          |         |                    |                                     |         |         |                   |   |         |         |                  |                           |         |           |                    |  |         |         |                        |  |  |              |           |   |          |           |        |   |     |         |         |  |    |                           |         |   |  |                               |                               |  |        |         |                        |                  |        |                                   |         |  |                          |         |         |   |        |           |   |   |  |         |        |  |  |           |         |  |  |           |         |                                |  |         |         |                  |  |         |         |                 |  |         |         |                               |  |        |        |   |  |         |         |   |  |        |        |  |  |         |         |   |  |         |         |  |  |                           |  |  |  |                           |  |  |  |
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